

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/524945
<i>(Use as many sheets as necessary)</i>				Filing Date	02-16-2005
Sheet	1	of	13	First Named Inventor	F. Parhami
				Art Unit	1633
				Examiner Name	Leavitt, Maria Gomez
				Attorney Docket Number	58086-241892

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US 6,184,215	February 6, 2001	Elias et al.	
	A2	US 6,586,189	July 1, 2003	Forman	
	A3	US 6,893,830	May 17, 2005	Janowski et al.	
	A4	US 2004/0176423	September 2004	V.M. Paralkar	
	A5	US 2006/0270645	November 30, 2006	F. Parhami	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number-Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1	WO/2005/020928	October 3, 2005	Parhami F	
	B2	WO/2006/012902	September 2, 2006	Svendsen A. et al.	
	B3	WO/2007/098281 (PCT/US2007/005073)	January 11, 2007	Parhami F, et al.	

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
	C1	Aghaloo TL, Amantea CM, Cowan CM, Richardson JA, Wu BM, Parhami F, Tetradi S. Oxysterols enhance osteoblast differentiation in vitro and bone healing in vivo. <i>J Orthop Res.</i> 2007 Nov;25(11):1488-97 (also known as Aghaloo 2006 in press)			
	C2	Akazawa C, Isuzuki H, Nakamura Y, Sasaki Y, Ohsaki K, Nakamura S, arakawa Y, Kohsaka S. The upregulated expression of sonic hedgehog in motor neurons after rat facial nerve axotomy. <i>J Neuroscience</i> 2004; 24:7923-7930			
	C3	Almeida M, Han L, Bellido T, Manolagas SC, Kousteni S. Wnt proteins prevent apoptosis of both uncommitted osteoblast progenitors and differentiated osteoblasts by beta-catenin-dependent and -independent signaling cascades involving Src/ERK and phosphatidylinositol 3-kinase/AKT. <i>J Biol Chem.</i> 2005 Dec 16;280(50):41342-51.			

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C4	Amantea CM et al. 2006, Oxysterols are novel activators of hedgehog and Wnt signaling. <i>J Bone Miner Res</i> 21:S1;S156
C5	Banerjee C, McCabe LR, Choi JY, Hiebert SW, Stein JL, Stein GS, Lian JB. Runt homology domain proteins in osteoblast differentiation: AML3/CBFA1 is a major component of a bone-specific complex. <i>J Cell Biochem.</i> 1997 Jul 1;66(1):1-8
C6	Bannai K, Morisaki M, Ikekawa N. Studies on steroids. Part 37. Synthesis of the four stereoisomers of 20,22-epoxycholesterol. <i>J Chem Soc Perkins Trans 1</i> 1979; 2116-2120
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C10	Bennett CN, Ross SE, Longo KA, Bajnok L, Hemati N, Johnson KW, Harrison SD, MacDougald OA. Regulation of Wnt signaling during adipogenesis. <i>J Biol Chem.</i> 2002 Aug 23;277(34):30998-1004.
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C19	Boguslawski G, Hale LV, Yu XP, Miles RR, Onyia JE, Santerre RF, Chandrasekhar S. Activation of osteocalcin transcription involves interaction of protein kinase A- and protein kinase C-dependent pathways. <i>J Biol Chem.</i> 2000 Jan 14;275(2):999-1006
C20	Boland GM, Perkins G, Hall DJ, Tuan RS. Wnt 3a promotes proliferation and suppresses osteogenic differentiation of adult human mesenchymal stem cells. <i>J Cell Biochem.</i> 2004 Dec 15;93(6):1210-30 .
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C23	Burger A, Colobert F, Hetru C, Luu B. <i>Tetrahedron</i> 1988, 44: 1141-1152
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C34	Chuu CP, Chen RY, Hiipakka RA, Kokontis JM, Warner KV, Xiang J, Liao S. The liver X receptor agonist T0901317 acts as androgen receptor antagonist in human prostate cancer cells. <i>Biochem Biophys Res Commun.</i> 2007 Jun 1;357(2):341-6. Epub 2007 Mar 28
C35	Chuu CP, Hiipakka RA, Kokontis JM, Fukuchi J, Chen RY, Liao S. Inhibition of tumor growth and progression of LNCaP prostate cancer cells in athymic mice by androgen and liver X receptor agonist. <i>Cancer Res.</i> 2006 Jul 1;66(13):6482-6

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C36	Clément-Lacroix P, Ai M, Morvan F, Roman-Roman S, Vayssiére B, Belleville C, Estrera K, Warman ML, Baron R, Rawadi G. Lrp5-independent activation of Wnt signaling by lithium chloride increases bone formation and bone mass in mice. Proc Natl Acad Sci U S A. 2005 Nov 29;102(48):17406-11.
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C48	Eastell R. Treatment of postmenopausal osteoporosis. New Eng J Med 1998; 338(11):736-746
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C52	Fajas L, Schoonjans K, Gelman L, Kim JB, Najib J, Martin G, Fruchart JC, Briggs M, Spiegelman BM, Auwerx J. Regulation of peroxisome proliferator-activated receptor gamma expression by adipocyte differentiation and determination factor 1/sterol regulatory element binding protein 1: implications for adipocyte differentiation and metabolism. <i>Mol Cell Biol.</i> 1999 Aug;19(8):5495-503
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C54	Franceschi RT, Xiao G. Regulation of the osteoblast-specific transcription factor, Runx2: responsiveness to multiple signal transduction pathways. <i>J Cell Biochem.</i> 2003 Feb 15;88(3):446-54. Review
C55	Fujita T, Azuma Y, Fukuyama R, Hattori Y, Yoshida C, Koida M, Ogita K, Komori T. Runx2 induces osteoblast and chondrocyte differentiation and enhances their migration by coupling with PI3K-Akt signaling. <i>J Cell Biol.</i> 2004 Jul 5;166(1):85-95. Epub 2004 Jun 28.
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C57	Garrett IR, Chen D, Gutierrez G, Zhao M, Escobedo A, Rossini G, Harris SE, Gallwitz W, Kim KB, Hu S, Crews CM, Mundy GR. Selective inhibitors of the osteoblast proteasome stimulate bone formation in vivo and in vitro. <i>J Clin Invest.</i> 2003 Jun;111(11):1771-82
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C59	Gen AVD, Wiedhaup K, Swoboda JJ, Dunathan HC, Johnson WS. <i>J Am Chem Soc</i> 1973, 95: 2656-2663
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C61	Ghosh-Choudhury N, Mandal CC, Choudhury GG. Statin-induced Ras activation integrates the phosphatidylinositol 3-kinase signal to Akt and MAPK for bone morphogenic protein-2 expression in osteoblast differentiation. <i>J Biol Chem.</i> 2007 Feb 16;282(7):4983-93 .
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C64	Gordon MD, Nusse R. Wnt signaling: multiple pathways, multiple receptors, and multiple transcription factors. <i>J Biol Chem.</i> 2006 Aug 11;281(32):22429-33. Epub 2006 Jun 22. Review..
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C78	Juvet LK, Andresen SM, Schuster GU, Dalen KT, Tobin KA, Hollung K, Haugen F, Jacinto S, Ulven SM, Bamberg K, Gustafsson JA, Nepp HI. On the role of liver X receptors in lipid accumulation in adipocytes. <i>Mol Endocrinol</i> . 2003 Feb;17(2):172-82
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C84	Komori T. Regulation of skeletal development by the Runx family of transcription factors. <i>J Cell Biochem</i> . 2005 Jun 1;95(3):445-53
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C92	Maeda T, Matsunuma A, Kawane T, Horiuchi N. Simvastatin promotes osteoblast differentiation and mineralization in MC3T3-E1 cells. <i>Biochem Biophys Res Commun</i> . 2001 Jan 26;280(3):874-7

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C93	Maggio D, Barabani M, Pierandrei M, Polidori MC, Catani M, Mecocci P, Senin U, Pacifici R, Cherubini A. Marked decrease in plasma antioxidants in aged osteoporotic women: results of a cross-sectional study. <i>J Clin Endocrinol Metab</i> . 2003 Apr;188(4):1523-7				
C94	Majors AK, Boehm CA, Nitto H, Midura RJ, Muschler GF. Characterization of human bone marrow stromal cells with respect to osteoblastic differentiation. <i>J Bone & Joint Surgery</i> 1997; 15:546-557				
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